

Emerging Technology

Novel Technique for Increasing Corrosion Resistance of Aluminum and Aluminum Alloys

A new process imparts a corrosion-resistant coating to aluminum and aluminum alloys. The process uses nontoxic lithium and magnesium salts, with or without heat treatment, to replace the currently used hexavalent chromium, which is known to be a highly toxic carcinogen.



Contact

*Ohio State University
Material Science Department
477 Watts Hall
2041 College Road
Columbus, OH 43210*

*Contact: Prof. Rudolph G. Buchheit
Telephone: 614-292-6085
Email: buchheit.8@osu.edu*



U.S. Department of Energy
**Energy Efficiency and Renewable
Energy**